
18. (twice amended) The screening method according to claim 40, wherein the aberrant receptor is isolated from a cell which expresses the gene encoding the aberrant receptor.

6¹ 19. (three times amended) The screening method according to claim 40, wherein the aberrant receptor is encoded by a gene in the mammal, the method further comprising the step of selecting the receptor by comparing the gene encoding the aberrant receptor, isolated from a cell of the mammal, with a gene encoding the non-aberrant receptor, prepared from a cell of a mammal of the same species that does not carry the aberrant receptor.

Please cancel claim 21, without prejudice.

6² 22. (four times amended) The method according to claim 42, wherein the aberrant receptor, which has substantially changed affinity for substances, is encoded by a gene in the mammal and is isolated from a cell which expresses the gene encoding the aberrant receptor.

Please cancel claim 24, without prejudice.

6³ 26. (twice amended) The method according to claim 43 wherein the substance normally operates said receptor.

Please cancel claim 27, without prejudice.

6⁴ 28. (amended) The method according to claim 39, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

29. (amended) The method according to claim 40, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

30. (amended) The method according to claim 41, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

64 31. (amended) The method according to claim 42, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

65 33. (amended) The method according to claim 43, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

35. (amended) The method according to claim 44, wherein the operation activity is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

66 36. (amended) The method according to claim 42, wherein the activity of the signal transduction system of cells is a change in intracellular concentrations of responding substances selected from the group consisting of cAMP, inositol phosphate and calcium ion.

67 44. (amended) A method of screening for a substance capable of causing an aberrant receptor, which has substantially changed affinity for natural substances that have a natural affinity for a non-aberrant receptor, to operate in a manner similar to a non-aberrant receptor comprising:

- (1) providing cells expressing the gene encoding the aberrant receptor,
- (2) providing a subject substance to be screened to the cells expressing the aberrant receptor, said subject substance comprising a synthetic compound which substantially fails to operate the non-aberrant receptor,
- (3) determining the operation activity of said subject substance on said receptor,